

6S4A

Medium-Mu Triode

9-PIN MINIATURE TYPE

With Heater Having Controlled Warm-Up Time

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage (AC or DC)	6.3	volts
Current	0.6 $\pm$ 6%	amp
Warm-up time (Average)	11	sec

Direct Interelectrode Capacitances (Approx.):^a

Grid to plate	2.4	μ f
Grid to cathode and heater	4.2	μ f
Plate to cathode and heater	0.6	μ f

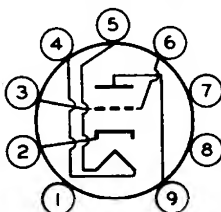
Characteristics, Class A₁ Amplifier:

Plate Voltage	250	volts
Grid Voltage	-8	volts
Amplification Factor	16.5	
Plate Resistance (Approx.)	3700	ohms
Transconductance	4500	μ mhos
Plate Current	24	ma
Plate Current for grid volts = -15.	4	ma
Grid Voltage (Approx.) for plate μ a = 50.	-22	volts

Mechanical:

Operating Position	Any
Maximum Overall Length	2-5/8"
Maximum Seated Length	2-3/8"
Length, Base Seat to Bulb Top (Excluding tip)	2" $\pm$ 3/32"
Diameter	0.750" to 0.875"
Dimensional Outline	See <i>General Section</i>
Bulb	T6-1/2
Base	Small-Button Noval 9-Pin (JEDEC No.E9-1)
Basing Designation for BOTTOM VIEW	9AC

Pin 1 - Internal
Connection—
Do Not Use
Pin 2 - Cathode
Pin 3 - Grid
Pin 4 - Heater



Pin 5 - Heater
Pin 6 - Grid
Pin 7 - Same as
Pin 1
Pin 8 - Same as
Pin 1
Pin 9 - Plate

VERTICAL-DEFLECTION AMPLIFIER

Maximum Ratings, Design-Maximum Values:

For operation in a 525-line, 30-frame system^b

DC PLATE VOLTAGE	550	max.	volts
PEAK POSITIVE-PULSE PLATE VOLTAGE ^c	2200	max.	volts
PEAK NEGATIVE-PULSE GRID VOLTAGE	250	max.	volts

← Indicates a change.



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CATHODE CURRENT:

Peak.	105	max.	ma
Average	30	max.	ma
PLATE DISSIPATION	8.5	max.	watts

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode.	200	max.	volts
Heater positive with respect to cathode.	200 ^d	max.	volts

Maximum Circuit Values:

Grid-Circuit Resistance:

For cathode-bias operation.	2.2	max.	megohms
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^a Without external shield.

^b As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.

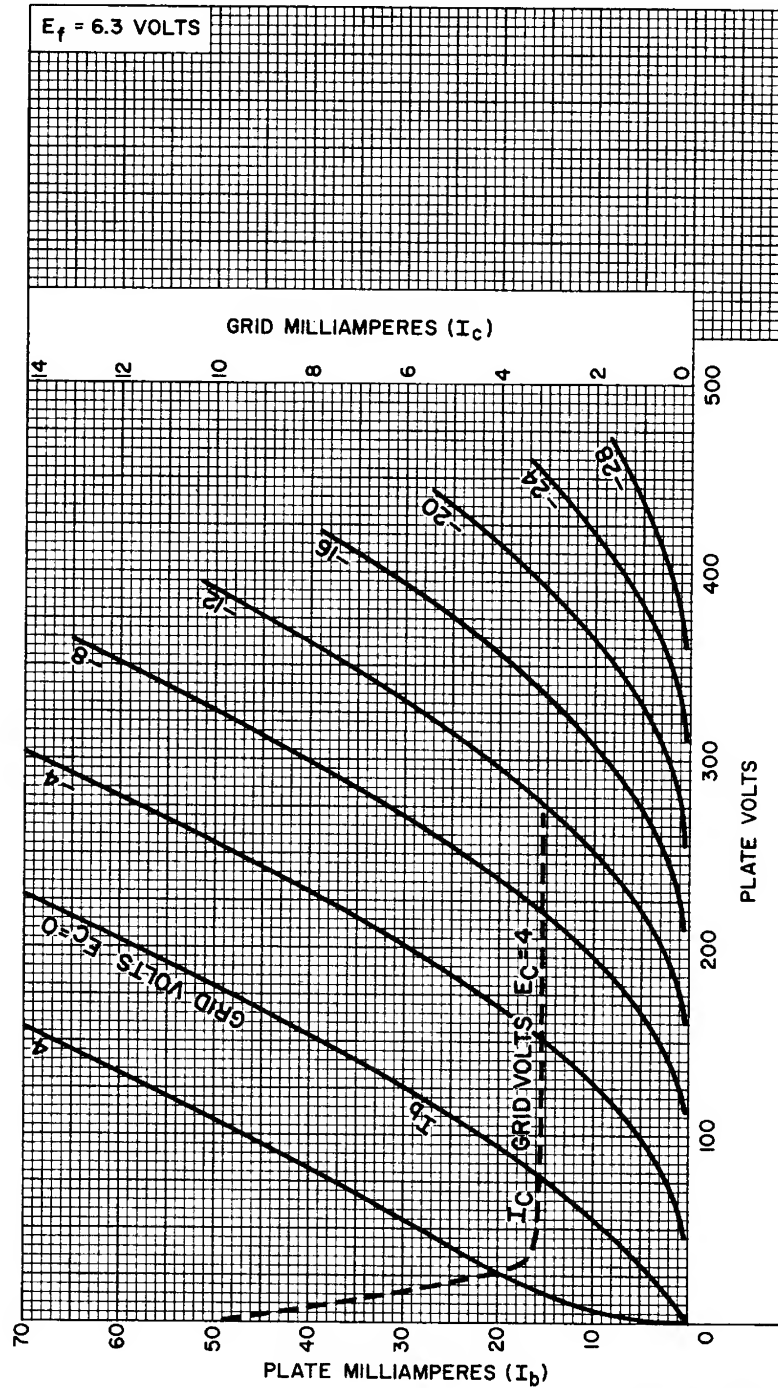
^c This rating is applicable where the duration of the voltage pulse does not exceed 15 per cent of one vertical scanning cycle. In a 525-line, 30-frame system, 15 per cent of one vertical scanning cycle is 2.5 milliseconds.

^d The dc component must not exceed 100 volts.



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AVERAGE CHARACTERISTICS



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